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FIG. 1A

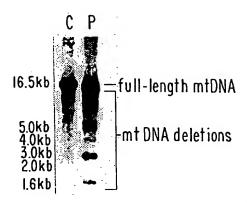


FIG. 1B

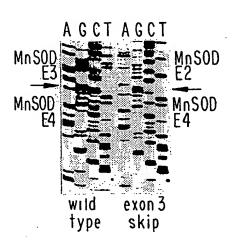
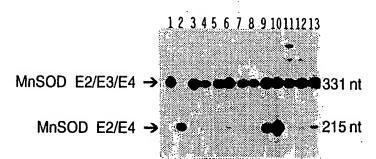


FIG. 1C

EXON 2-TGGCCAAGG/GAGATGTTA-EXON 3-AACCCAAAG/GGGAGTTGC-EXON 4

EXON 2-TGGCCAAGG/GGGAGTTGCTGGAAGCCATCAAACGTGA-EXON 4

FIG. 2



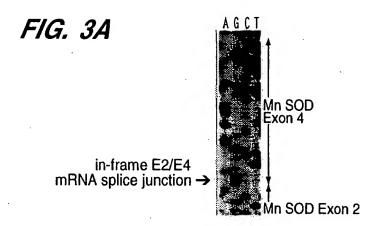
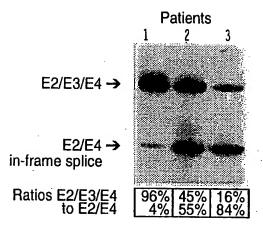


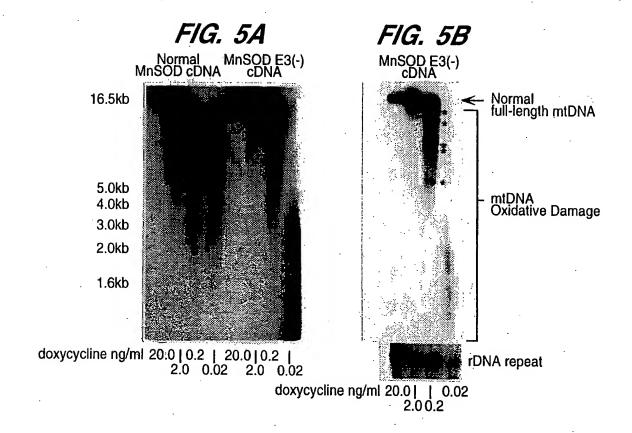
FIG. 3B

A L A K G E L L E GCGTTGGCCAAGGGGGAGTTGCTGGAAG

280
470
Mn SOD
Exon 2
Exon 4

FIG. 4





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FIG. 6

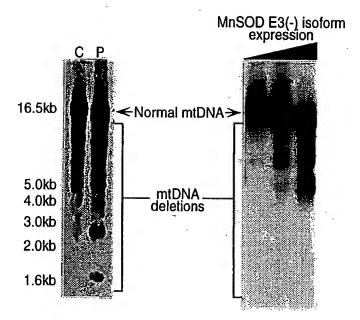


FIG. 7

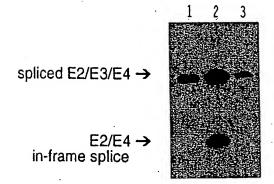
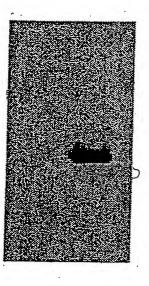
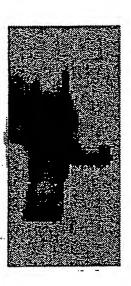


FIG. 8

A B C D

MnSOD E3(-) protein →





MnSOD E3(+)

← protein

MnSOD E3(-) Antibody Normal MnSOD Antibody

FIG. 9

MnSOD antibody

MnSOD E3(-) isoform antibody

